

CLAIMS:

1. A method for transmitting data along one or more communication channels to a receiving device having addressable memory units, the data having a known size and being 5 split into two or more data packets each having a respective header and each sent along one of said communication channels to a respective memory unit, the method comprising:

- (a) marking a respective final data packet to be sent along each communication channel so as to be 10 identifiable by a respective memory unit,
- (b) for each memory unit receiving said respective final data packet generating an interrupt and informing the receiving device how much data was received by said memory unit, and
- 15 (c) determining a cumulative amount of data received by all memory units so as to allow the reading device to identify when no more data packets are to be transmitted.

2. The method according to Claim 1, further including:

- 20 (d) sending to the reading device data identifying along which of said communication channels data packets were sent so as to allow the reading device to check that a correct amount of data is received on each of said communication channels.

25 3. The method according to Claim 1, wherein step (a) includes:

- i) embedding in the respective header of the final data packet data identifying it as the final packet to be sent along the respective communication channel.

30 4. The method according to Claim 1, wherein step (a) includes:

- i) transmitting a specially formatted message after the final data packet identifying it as the

final packet to be sent along the respective communication channel.

5. The method according to Claim 4, wherein the specially formatted message is an empty packet.

5 6. The method according to Claim 1, wherein the memory unit is a component of an RDMA engine.

7. A reading device including a controller coupled to a plurality of RDMA engines each adapted to receive data packets associated with a transaction on a respective 10 communication channel and each being responsive to receiving on the respective communication channel a final packet associated with the transaction for:

15 (a) generating an interrupt, and

(b) reporting to the controller an amount of data received on the respective communication channel.

8. The reading device according to Claim 7, wherein the controller is responsive to said interrupt for computing a cumulative amount of data received by all RDMA engines that have generated respective interrupts.

20 9. The reading device according to Claim 8, wherein the controller is responsive to all data having been received for completing processing associated with the transaction.

10. A client-server system comprising:

25 a server,

a client machine remotely coupled to the server by at least two communication channels for receiving from the server data packets associated with a transaction that are transmitted to a reading device in the client machine, said reading device comprising:

30 a controller coupled to a plurality of RDMA engines each adapted to receive data packets on a respective communication channel and each being responsive to receiving on the respective communication channel a final packet associated with the transaction for:

35 (a) generating an interrupt, and

(b) reporting to the controller an amount of data received on the respective communication channel.

11. The client-server system according to Claim 10, wherein the controller is responsive to said interrupt for 5 computing a cumulative amount of data received by all RDMA engines that have generated respective interrupts.

12. The client-server system according to Claim 11, wherein the controller is responsive to all data having been received for completing processing associated with the 10 transaction.

13. A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for transmitting data along one or more communication channels to a receiving device having 15 addressable memory units, the data having a known size and being split into two or more data packets each having a respective header and each sent along one of said communication channels to a respective memory unit, the method comprising:

20 (a) marking a respective final data packet to be sent along each communication channel so as to be identifiable by a respective memory unit,

25 (b) for each memory unit receiving said respective final data packet generating an interrupt and informing the receiving device how much data was received by said memory unit, and

30 (c) determining a cumulative amount of data received by all memory units so as to allow the reading device to identify when no more data packets are to be transmitted.

14. A computer program product comprising a computer useable medium having computer readable program code embodied therein for transmitting data along one or more communication channels to a receiving device having addressable memory 35 units, the data having a known size and being split into two or more data packets each having a respective header and each

sent along one of said communication channels to a respective memory unit, the computer program product comprising:

computer readable program code for causing the computer to mark a respective final data packet to be sent
5 along each communication channel so as to be identifiable by a respective memory unit,

computer readable program code for causing the computer to receive said respective final data packet and for each memory unit to generate an interrupt and inform the
10 receiving device how much data was received by said memory unit, and

computer readable program code for causing the computer to determine a cumulative amount of data received by all memory units so as to allow the reading device to
15 identify when no more data packets are to be transmitted.

00000000000000000000000000000000